Patent Claims

1. A robot system equipped with one or more tools (5, 15), a camera (9) and a light source (13) for illuminating the field of view of the camera (9), characterized in that the light source (13) and the camera (9) can be moved independently of one another in order to illuminate the field of view from different directions.

2. The robot system as claimed in claim 1, characterized in that a subassembly that comprises the camera (9) and the light source (13) as well as at least a first adjusting device (10, 11, 12) for moving camera (9) and light source (13) relative to one another can be moved by a second adjusting device (8) with reference to a common base.

3. The robot system as claimed in claim 2, characterized in that of the camera (9) and light source (3) one is firmly connected to the second adjusting device (8).

4. The robot system as claimed in one of the preceding claims, characterized in that a subassembly that comprises the camera (9) and at least one of the tools (15) as well as at least one third adjusting device (14) for moving camera (9) and tool (15) relative to one another can be moved by a fourth adjusting device (8) with reference to a common base.

5. The robot system as claimed in claim 4, characterized in that of the camera (9) and tool (15) one is firmly to the fourth adjusting device (8).

6. The robot system as claimed in one of the preceding claims, characterized in that the tools (5,

15) include at least a gripping tool (15) and a further tool (5).

7. The robot system as claimed in claim 6, characterized in that the number of degrees of freedom with which the gripping tool (15) and the camera (9) can be moved with reference to one another is greater than the number of degrees of freedom of the camera (9) and the gripping tool (15) with reference to a stationary part of the robot system.